

## Lab 7

### Subquery

#### Syntax:

**SELECT**     *select\_list*  
**FROM**       *table*  
**WHERE**      *expr operator*

**(SELECT**       *select\_list*  
**FROM**       *table*);

#### Schema 1

1. Write a query to display the name of customers who are staying in the same town as Glads Gladdies.

```
SELECT CUST_NAME FROM CUSTOMERS
WHERE TOWN = (SELECT TOWN FROM CUSTOMERS
               WHERE CUST_NAME = 'Glad Gladdies');
```

2. Identify the customers who have a credit limit which is more than the credit limit given for Nevs Nursery

```
SELECT CUST_NAME FROM CUSTOMERS
WHERE CR_LIMIT < (SELECT CR_LIMIT FROM CUSTOMERS
                  WHERE CUST_NAME = 'Nevs Nursery');
```

3. Retrieve the customer name and order quantity for customers

```
SELECT CUST_NAME, ORDER_QTY, PROD_COD
FROM CUSTOMERS, ORDER_DETAILS, ORDERS
WHERE CUSTOMERS.CUST_NO = ORDERS.CUST_NO
AND
ORDER_DETAILS.ORDER_NO = ORDERS.ORDER_NO;
```

4. Write a query to display the customers who have an order price which is lower than Preston City

```
SELECT CUST_NAME, ORDER_PRICE
FROM CUSTOMERS, ORDER_DETAILS, ORDERS
WHERE (CUSTOMERS.CUST_NO = ORDERS.CUST_NO)
AND
```

```

    (ORDER_DETAILS.ORDER_NO = ORDERS.ORDER_NO)
AND
ORDER_PRICE < (SELECT SUM(ORDER_PRICE)
FROM CUSTOMERS, ORDER_DETAILS, ORDERS
WHERE (CUSTOMERS.CUST_NO = ORDERS.CUST_NO)
AND
    (ORDER_DETAILS.ORDER_NO = ORDERS.ORDER_NO)
AND
CUST_NAME = 'Preston City')
AND
CUST_NAME <> 'Preston City';

```

## Schema 2

5. Write a query to display the last name and hire date of any employee in the same department as Abel

```

SELECT LAST_NAME, HIRE_DATE
FROM EMPLOYEES
WHERE DEPARTMENT_ID = (SELECT DEPARTMENT_ID FROM
EMPLOYEES WHERE LAST_NAME = 'Abel');

```

6. Display the last name, department number, and job ID of all employees whose department location ID is 1700.

```

SELECT LAST_NAME, EMPLOYEES.DEPARTMENT_ID, JOB_ID
FROM EMPLOYEES, DEPARTMENTS
WHERE DEPARTMENTS.DEPARTMENT_ID =
EMPLOYEES.DEPARTMENT_ID
AND
LOCATION_ID = 1700;

```

7. Display the last name and salary of every employee who reports to King.

```
SELECT LAST_NAME, SALARY
FROM EMPLOYEES
WHERE MANAGER_ID IS NOT NULL;
```

8. Display the department number, last name, and job ID for every employee in the Executive department.

```
SELECT DEPARTMENT_ID, LAST_NAME, JOB_ID
FROM EMPLOYEES
WHERE DEPARTMENT_ID = (SELECT DEPARTMENT_ID FROM
DEPARTMENTS
WHERE DEPARTMENT_NAME = 'Executive');
```

9. Create a query to display the employee numbers and last names of all employees who earn more than the average salary. Sort the results in ascending order of salary.

```
SELECT EMPLOYEE_ID, LAST_NAME
FROM EMPLOYEES
WHERE SALARY > (SELECT AVG(SALARY) FROM EMPLOYEES)
ORDER BY SALARY ASC;
```

10. Display the last name, department number, and job ID of all employees whose department location ID is 1200.

```
SELECT LAST_NAME, EMPLOYEES.DEPARTMENT_ID, JOB_ID
FROM EMPLOYEES, DEPARTMENTS
WHERE DEPARTMENTS.DEPARTMENT_ID =
EMPLOYEES.DEPARTMENT_ID
AND
LOCATION_ID = 1200;
```